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THE CLAIMS

1. A carrier structure for a reflector element, for use in a solar energy reflector system, and which comprises:

a platform which is arranged to carry the reflector element and which is formed with stiffening elements,

a frame structure supporting the platform, and
mounting means supporting the frame structure in a manner
that accommodates turning of the carrier structure about an axis of
rotation that lies substantially coincident with a longitudinal axis of the
reflector element when mounted to the platform.

- 2. The carrier structure as claimed in claim 1 wherein the platform comprises a corrugated metal panel, with the corrugations forming the stiffening elements, and wherein the reflector element is supported upon the crests of the corrugations.
- 3. The carrier structure as claimed in claim 1 wherein the platform comprises a panel-like platform, wherein the stiffening elements are formed as flutes in the platform and wherein the reflector element is supported upon crests of the flutes.
 - 4. The carrier structure as claimed in claim 2 or claim 3 wherein the stiffening elements are orientated to extend in a direction parallel to the axis of rotation.
 - 5. The carrier structure as claimed in any one of the preceding claims wherein the platform is curved concavely in a direction orthogonal to the axis of rotation.
 - 6. The carrier structure as claimed in claim 5 wherein the platform is curved with a radius of curvature within the range of 20 to 50 metres.
- 7. The carrier structure as claimed in claim 5 or claim 6 wherein the reflector element is secured to the platform in a manner such that the curvature of the platform is imparted to the reflector element.

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- 8. The carrier structure as claimed in any one of the preceding claims wherein the reflector element is mounted to the platform and comprises a panel-shaped glass mirror.
- 9. The carrier structure as claimed in any one of claims 1 to 7 wherein the reflector element is mounted to the platform and comprises a plurality of edge-abutting glass mirrors.
- 10 10. The carrier structure as claimed in any one of claims 7 to 9 wherein the reflector element is adhered to the platform.
 - 11. The carrier structure as claimed in any one of the preceding claims wherein the frame structure comprises hoop-like end members that extend about the axis of rotation of the carrier structure and wherein the platform extends in the longitudinal direction between the end members.
- 12. The carrier structure as claimed in claim 11 wherein the end members are supported for turning upon the mounting means.
 - 13. The carrier structure as claimed in claim 11 or claim 12 wherein each said hoop-shaped end member has a channel-section circumferential portion and a diametrically extending member that is constituted by a transverse frame member of the platform.
 - 14. The carrier structure as claimed in claim 13 wherein the mounting means comprise spaced-apart supporting rollers which track within the circumferential portion of associated ones of the end members.
 - 15. The carrier structure as claimed in any one of claims 11 to 14 and further comprising a drive system for imparting unidirectional turning drive to the carrier structure by way of at least one of the end members.
 - 16. The carrier structure as claimed in claim 15 wherein the drive

system comprises:

- a) a link chain that extends around and is fixed to the end member to form, in effect, a gear wheel,
- b) an electric motor and
- 5 c) a sprocket for transferring drive from the motor to the link chain.
- 17. A carrier structure substantially as shown in the accompanying drawings and substantially as hereinbefore described with reference thereto.